



# APRIL 1989

## VOL XLII - NUMBER 4

### April Events

Apr. 14 -- See April 21, meeting moved.

Apr. 21-23 -- Visalia International DX convention.

Apr. 30 -- Deadline for May DXer input.

May 12 -- NCDXC meeting, Palo Alto.

May 13 -- Electronic Flea Market, Foothill College, Los Altos.

### Meeting Notice

Friday the 21st of April will be the next irregular meeting of the NCDXC. The meeting will start sometime Friday afternoon and end sometime on Sunday. There will be lots of guest speakers.

In case you forgot: The April NCDXC meeting is the annual meeting of the Northern and Southern California DX Clubs (aka Visalia DX convention) and is in Visalia, CA on April 21-23, 1989.

### Roster Changes

Changes to member listings:

AE6U, Scott Williams  
P.O. Box 1189  
Greenville, N.C. 27835  
Home Phone 919 758 1545

WR6R, Albert C. Crespo  
5808 Morpeth St.  
Oakland, CA 94618  
Home Phone 415 658 6825  
Work Phone 415 553 1671

SM0AGD, Eric Sjolund  
Ormbergsv 17 I  
19360 Sigtuna, Sweden

Be wiser than other people if you can, but do not tell them so... *Lord Chesterfield*

### Famous last words

- Don't unplug it, it will just take a moment to fix.
- Let's take the shortcut, he can't see us from there.
- What happens if you touch these two wires tog--
- We won't need reservations.
- It's always sunny there this time of the year.
- Don't worry, it's not loaded.
- They'd never (be stupid enough to) make him a manager.

### de KE6ZE

This months cover takes a short break from the past "bugs" and gets us ready to go to Visalia. Thanks to Jim, W6CF for the cover art.

This *DXer* is a little later than your editor would like. However, eating comes first, fun later. Since the meeting date is moved to late in April for the convention, the meeting notice won't be late. Ah well, better next time.

Larry KD6XY has provided a set of DX ladder updates which are included in this *DXer*. Larry actively solicits your inputs. So, get 'em to him. Next update in a couple of months.

The calendar seems a little skimpy here recently, have you readers anything to put there? If so send them in and they will be there. The *DXer* could also use more cartoons, send them in too.

*Health, wealth, and happiness to you all, Dave*

### DEAR ABBY

Dear Abby - I have a problem...

I have two brothers and two sisters. One brother is a Ham, the other was just sentenced to death for murder. My mother died from insanity when I was young. My two sisters are prostitutes, my father sells narcotics to feed the family. Recently, I met a girl who was released from a reformatory where she served time for smothering her illegitimate child and I want very much to marry her; my problem is this: If I marry this girl, should I tell her about my brother who is a Ham?

*K4NBN 'No Bad News', SCDXC bulletin*



## The Scalpel is Sharp -- de WSMEP

The BOD meeting of the 9th of February was held at Hal's (N6AN) shack and was a single purpose meeting. We needed to sift through the repeater situation and make a decision to move the Club forward. To this end, we stocked up on goodies by K6RK, who knew I would keep everyone held bondage unless the problem was resolved and a decision made.

We invited AE6H and AA6G to our meeting to give us technical advice and lend their expertise. AE6H couldn't be with us at the last minute. Ted, KA6W, provided us with historical perspectives as well as his technical expertise. Larry, KG6GF and AA6G reported on their evaluation of the repeater controller and what we have as of this moment. Chuck, K6RK; Hal, N6AN; and Stan, K6MA; provided critical thinking input with incredibly objective remarks and I was fortunate to be able to lead this effort. I knew we would not fail (we didn't dare!)

The questions I wanted answered were as follows: What was the original goal in getting a new repeater controller? What was approved by the Club to this end? Who did what towards this end? What do we have now as of this moment? Where do we go now?

It turns out that the original reason for getting a new repeater controller was to assure SECURITY of the repeater controller, to not allow random computer generated phone numbers AND rings to control the repeater (A system which is still in place now!). The idea was to get a controller that was secure and

could only be accessed by a code. A controller of this type was available but also came with several other bells and whistles (A point I feel is nice to have with features that we can use in the future!). However, a decision was made to not buy a commercial controller and to buy only a board with few, if any, features. This would be sufficient for our purposes, but would have to be built upon. However, it turns out that this board was only a temporizing measure -- to be put up only while the decision to get a permanent controller was postponed. And so, the work on the ERSATZ, make-shift controller went forward. However, an Escom controller was soon obtained for a permanent controller.

At some later time, another issue was again raised. I understand that this issue was with us on and off many times in the past, but this time was of such presentation that it needed the urgent attention of all of our Club. This attention included the BOD and Repeater Committee to the point where nothing else of substance was discussed. This issue became so overwhelming that the Club was almost divided to the point where normally calm DXers who can pick a DX signal out of a pile-up several layers down with no problem became obsessed with whether or not to expand our repeater coverage! I find it hard to believe that such a really minor concern became so large, such a smoke-screen that the really important issue to making our repeater secure from 'repeater hackers' became negligible and took a back seat to this non-issue.

Perhaps the advent of the packet network at about this time made it the second event to change the repeater from 'the way it used to be'. Perhaps this was too much to swallow for some of the Gang? Anyhow, repeater expansion was approved after a very emotional campaign and again the repeater controller was thought about. How many clubs have come forward to avail themselves of our repeater expansion policy? It was really quite appropriate of us to add links as they are needed, provided an outlying group could share costs with us. So far, we have had no takers despite the fact that this is an excellent opportunity. Attention was now back on the repeater controller and work proceeded on the board by several of the repeater committee members.

However, trouble broke out in Dodge City and Committee members started resigning for a host of reasons, all of which must be accepted at face value not emotionalized over. Others were put on the project as they volunteered and some progress was noted on this controller. The progress was highlighted at a

Club meeting and one must really marvel at the technical expertise donated by the Repeater Committee as well as their tenacity through what can best be described as adverse conditions and poor propagation. The members of the Committee all resigned by January 1989 and were left with a situation that required emergent surgery, cold hard steel and objective resolution quickly. I must say that it is my sincere feeling that everyone who was associated with the Repeater Committee up to this point has served the Club well. Within the constraints of what the Club wanted and needed, with all of the other peripheral ongoing issues and harassment, these DXers served the Club well. I assure you there was no malice of foot dragging by these volunteers -- they did a superb job under the circumstances. The Club owes them a debt of thanks. We are lucky they didn't tell us all to drop dead -- I would not have had their patience and dedication!

So, let's go on! WHAT was the original goal? To obtain a more secure repeater controller. WHAT was approved? A controller board while other issues were deemed more important. WHO did what? The Repeater Committee has been busy with this project for several years. WHAT do we have at this point in time?

A controller which needs several months of work to be on schedule (nobody available to do it!) and in need of a board that is no longer made by the parent company. In other words, we are dead in the water with very little recourse but to change direction! WHERE do we go? We go forward because we cannot go backwards! As I said, the BOD has approved a new permanent controller to be installed and it has been ordered. This new controller has many features that we need but it also has the feature of expandability, which as you may recall is something the Club has committed itself to! This new controller has a local manufacturer who will repair it, service it, and update it, etc. All we have to do is to get it to them! I believe this new machine will serve us well for a long time and has all the features we want as well as many into or with which to grow. All we have to do now is to get it into place. To this end, KG6GF, et al, are busy as bees and I have charged them to get it up and functional ASAP! We need only to get our hot little hands on it to start getting it going.

What with the old board? Since some of the features were donated by one of the Committee members, these have been returned to him. The board, plain, can either be auctioned off or sold by the Club and

the money returned to the repeater treasury. Or, we could have a big party welcoming the new controller. Whatever your desire, guide us by your input. Perhaps we should buy plaques for the old Repeater Committee and its Chairman for putting up with all the adversity and harassment? In any event, I consider this issue closed. I am pleased to be able to move forward. It was a learning experience for many! We are banded together to work DX and bathe in its glory, not to squabble and let our petty egos and personalities get in the way of what we are all about.

Once the new controller is up, I would like to see some co-operation between the packet network and 'regular' repeater users. I would like to have a system whereby the DX from the packet net is read over the repeater every several hours or so. BUT, the regular repeater users must participate as mature adults! Do not ask for incessant repeats of calls, time, frequencies, who, where, what when, etc. This is part of the problem that caused this move to packet in the first place, besides other advantages of that system.

The question has been raised if we are a 'repeater club'? We all know what that implies and I find this question as an argument offensive because it is so obviously a smoke-screen and an unnecessary comment that it doesn't deserve to be addressed. BUT, the repeater is a part of the cement or amalgam (see, JZU, and you thought only you knew that word...) that holds this Club together -- it is a medium of communication, a meeting place and part of the life blood of this Club.

I hope that you all appreciate the need for my coming out of my little corner of the world occasionally. The slice of the pie that I see from my corner is sometimes crystal clear and I am glad for that! It allows me to wield the scalpel as needed and once in awhile I even use lidocaine...

The repeater and technical advisory group will be put together formally at the next BOD meeting. W6JZU has agreed to guide us temporarily while we look for a permanent type person.

Thank you all for your patience and understanding. Let's get on with our celebration of DX and life. Perhaps we all need to wear

See you in Visalia!

The End!

*Jerry, W8MEP*



## NCDXC Board of Directors Meeting

The NCDXC BOD Meeting was called to order at 7:30 PM on March 9, 1989, at the home of W6VG. Present were Club officers, W8MEP, N6AN, W6VG, K6RK, K6MA, and K6TS.

The BOD discussed the following items:

W6RGG letter contained in the DXer of March 1989. The Board agreed that a response to Bob's letter is required. W8MEP will generate a reply that indicates the Board's opinion. N6AN had prepared a draft reply for the BOD review.

Lack of DX Bulletin Announcements for the Thursday net nights. The BOD agreed that AA6G should contact W6LQC and determine what problems Phil is having and/or if he needs assistance from another member. It is the opinion of the BOD that DX advisories are a necessary item for the Thursday net.

Need for a volunteer to take over QSL information during Thursday night net operations. The BOD requests AA6G to find a volunteer for this activity. The BOD agreed to furnish 1989 Call Books and the W6GO list to the individual who accepts this position.

The BOD reviewed a request from Chod Harris, VP2ML, and his assistant, WW6F, concerning exchange of NCDXC DXer Publications for their new DX Publication. The Board agreed to the exchange.

The BOD discussed a possible change to NCDXC By-Laws which would add a new membership category which would include DXers from outside the

assigned NCDXC boundaries. This item needs more discussion before it will be brought to the floor for membership consideration.

The BOD answered a request from the Raffle Chairman for an additional charge account at San Mateo Electronics for raffle items that are not available at HRO. The BOD agreed to this request and forwarded the credit application to NCDXC Treasurer for processing with a \$100.00 limit.

The BOD received a proposal from N6AN which makes the Chairman of the DXer of the Year selection group responsible for making a written report of their selection to the Editor of the DXer and NCDXC files after presentation of the award at Visalia. The BOD agreed with this proposal and will include this change into the next Procedures Manual change.

The NCDXC Secretary reported that the annual ARRL Club Affiliation Report has been filed.

The NCDXC Treasurer reported that the Club File of Incorporation to the State of California has been completed.

The BOD discussed the W6TI repeater progress. The RC85 controller board has been purchased. KG6GF, AA6G, WU6I, AE6H, N6ST, and W6JZU are working on the project at the present time. The BOD believes it necessary to have the repeater working group attend the next Board Meeting scheduled for Thursday April 20, 1989. One main topic will be use of the present controller board for back-up in case of malfunction.

S2 Project.. Bangladesh. W8MEP read the letter received in appreciation for his donation of US funds for the language examination. Please note, the NCDXC BOD did not authorize payment of the funds--W8MEP did this from his own pocket. Jerry's letter to the young man included a request for him to investigate the possibility of Amateur Radio Operations from Bangladesh. The reply was laced with lots of information concerning SWL activity at S2 and contained a request for latest publications from ARRL and other technical magazines. It seems this young man is knowledgeable and on speaking terms with the Director of Communications. He requested as many letters as possible be sent to this man from as many DX organizations and individuals as possible. However, most authority exists at the Bangladesh Presidential level. And from comments received from Lloyd and Iris, the only way this can be accomplished is by "MONEY". But the BOD believes some pursuit of the situation may be helpful; therefore, if a DXer desires to write a personal letter to the

Director of Communications, W8MEP can provide the correct mailing address. If someone wants to pursue this project, get in touch with W8MEP.

The BOD adjourned at 9:05 PM.

Respectfully submitted,

*Thomas F. Jones, NCDXC Secretary*

## Dear Editor:

The BOD and I are indeed concerned that the Repeater Committee Chairman and all Committee members have resigned. We thank you, W6RGG, et al, for your concern. From the letters of resignation we received, we noted that the major reason for resignation was "burnout", albeit clothed in other terms (anger, frustration, boredom, etc.). Some of the reasons were intensely personal and I refer you to the authors for more information. They may wish to share it with you. These DXers did all they could and were ready to let someone else take over. The problems may find partial answers in those Club members who did not or do not appreciate the herculean task these VOLUNTEERS did for them, the repeater users! It is quite easy to criticize--another matter entirely to pitch in and help when problems are perceived. Hindsight is usually 20/20 and sideline/armchair quarter backing is also always correct (?).

Insofar as some long time members let their memberships lapse, consider the following:

Since the inception of the NCDXC, membership and continuance of membership is and has been a personal decision. The BOD has not found it necessary to question decisions to withdraw from the Club on the premise it is a personal decision, regardless of the reasons. Interviews and discussions with some of the OTs who have decided not to renew their membership have revealed some interesting reasons, i.e.:

- They don't like certain members or Club officers.
- They have become inflexible and cannot accept new technologies, such as packet, RTTY, etc.
- They don't like the way the repeater is operated.
- They have lost interest in DX.
- They no longer attend Club meetings particularly since the ban on smoking.

Does the BOD (Club) have a policy which requires it to determine why members choose to let their membership lapse? Do we really need one? We doubt it.

## SUGGESTIONS:

**PRO:** If there is a trend of OT failure to renew (which we doubt) perhaps the last notice sent to members who have not paid their dues by August 31st should include a questionnaire requesting reasons why the member will not renew. The advantage of this is it brings to the surface reasons which might be correctable or a need to change present policies and procedures. In addition, personal or telephone contact by the President or his designated representative might result in the smoothing of feathers and save the exit of the disillusioned OT.

**CON:** Perhaps, we should continue with the present policy, to wit: it is a personal decision, if the OT or anyone else wants to quit, that is his privilege. Some OTs become less patient in their old age, lose their flexibility, relate to the good old days and are easily annoyed. To gather reasons for their quitting is of little value since the OT has made up his mind to quit and that is that.

So, who would like to VOLUNTEER to be a "Membership Satisfaction Evaluator"? So, Gang, step right up! We are you, you is us, and we need each other!

*Your Illustrious Board, Jerry, W8MEP; Larry, KG6GF; Chuck, K6RK; Tom, K6TS; Stan, K6MA and Hal, N6AN*



*The Queen began screaming, 'Off with her head!'*



## NCDXC Meeting

The March meeting of the NCDXC was held at Harry's Hofbrau, Palo Alto, Ca., on March 10, 1989. The President, Jerry, W8MEP, called the meeting to order at 7:30 p.m. Jerry extended a welcome to the visitors and Steve, W6MKM, proceeded with the Raffle. K6MA won a 1989 Call Book. K6RK ran off with the Super Wide Band Omni Icom Antenna. The third ticket drawn resulted in WA6IZT receiving the latest Newark Parts Catalog.

Our visitors included K6ZMs XYL, KH6LD, Larry; KG6MY, Doyle, WB6BMY, W6SDR Dick and his XYL, W6JZU's XYL and W6HRK and his XYL. The Club greatly appreciates their attendance at the meetings.

WOW - The Great Kahuna appeared for the second time this year(!) and brought forth this great information: "It appears that we have again achieved a greater Club score for the ARRL DX contest than the Southern California group received!" Details of this information will be reported by K4UVT, our Contest Chairman.

W6TPH, Bill, reported progress for the Visalia Convention. It appears to be going along smoothly except for shortage of rooms at the Inn. Bill requested that any Club member who holds a reservation who is unable to attend to please let him know so he can use these rooms for several visiting DX attendees.

At the start of the meeting, a moment of silence was held for the following Silent Keys: Orman Meyer, an ex-NCDXC President, ex-K6QX; Howard Brokate,

W5RO; Bill Eitel, W6UF.

W8MEP, Jerry, presented a review of Chod Harris' new DX Magazine and described it as great, wonderful and complemented Chod on generating such a fine DX Reporting Magazine.

Jerry also commented on the need for a volunteer to replace Jan and Jay O'Brien for QSL information. Jerry also reported on the S2 Project. About 2 months ago, the Club received a request for US funds from a young man who lives in Bangladesh. The funds were for a US Language Test (\$29.00), that is required for entry into US college courses. It is an English/Foreign language proficiency test. Jerry understood this requirement and volunteered to forward the funds for this man. He added a request for the individual to assist in getting S2 on the air for Amateur Radio. WOW .. The reply was great and, of course, there were several requests for additional technical pubs, ARRL Handbooks, etc. Jerry has entitled this the "S2 Project" and will report on progress as it moves along.

The Club had four first readings for NCDXC Club membership. They are: Louise Bloon, KA6ING. Paul Scott, N6NXV. Dick North, WA6SDR. Doyle Souders, KG6MY.

The evening program was presented by Kip, W6SZN, on the Rotuma DXpedition of last November. The presentation and slide photographs of this island paradise were excellent! Kip, the members of the Club greatly appreciate your efforts and the efforts of other members who assisted in getting this DXpedition off and running. Additionally, we wish to extend appreciation to those who assisted in filling out the QSL cards for mailing. The QSO count was 34,700 which is a bunch. Congratulations, Kip, and group.....

It was brought to the attention of your Club Secretary that he again goofed in reporting the 96 DXer Plaque winners last month. The report should have indicated the Plaques were for NCDXC 9 BDXCC accomplishments and additionally I missed one of the members, KI6WF, who also received an award. Sorry about the error.

W8MEP adjourned the meeting at 9:30 p.m.

*Respectfully submitted, Thomas F. Jones, K6TS  
NCDXC Secretary*

# Treasurer's Report

Feb 1 - 28, 1989

## Checking Account Activity

Jan 89 EOM Balance	\$3,736.34
Deposits from Dues	120.00
Other Receipts	732.50
Subtotal	\$4,588.84

Accounts Payable	661.74
February EOM Balance	\$3,927.10

## Savings

Bank of America 2/15/89 \$11,173.62  
Includes Reserve for QSL Purchase

American Savings 12/25/88 \$7,737.36  
One year CD due 7/18/89 @ 7.4% Annual Yield

## Repeater Fund

Balance as of 12/31/88 \$1,871.73

March 1 - 31, 1989

## Checking Account Activity

Feb 89 EOM Balance	\$3,927.10
Deposits from Dues	0
Other Receipts	176.00
Subtotal	\$4,103.10

Accounts Payable	632.54
March 89 EOM Balance	\$3,470.56

## Savings

Bank of America 3/21/89 \$11,233.74  
Includes Reserve for QSL Purchase

American Savings 3/26/89 \$7,878.85  
One Year CD due 7/18/89 @ 7.4% annual yield

*Stan Kuhl, K6MA, NCDXC Treasurer*

## DX Bulletin

This ARRL DX bulletin was pulled off an electronic bulletin board and is presented here for your edification. Some of this is new, some not so new. If this is too old for you, then HOT news items are solicited for publication. The DXer deadline is listed in the

calendar. Get news to your editor and see your name (or call) in print around the world.

THANKS TO KB1BE AND THE CONNECTICUT DX ASSOCIATION FOR THE FOLLOWING DX INFORMATION.

Iraq. Depending on the operator of Y10VP, QSL to Ali, Box 100, to Majid, Box 5864, to Iya, Box 761, Baghdad, Iraq. They are active on SSB, RTTY and CW.

YEMEN. 4W0PA IS NOW QRT AND IS BACK IN THE NETHERLANDS. HE WAS DETAINED AT THE BORDER RETURNING FROM 70, INTERROGATED, CHARGED WITH COMMUNICATING WITH THE ENEMY, AND ASKED TO LEAVE THE COUNTRY.

ROTUMA/FIJI. QSL CARDS MAY BE SUBMITTED FOR ROTUMA CREDIT ON OR AFTER JUNE 1, 1989. CARDS SUBMITTED BEFORE THAT DATE WILL BE RETURNED WITHOUT CREDIT. THERE ARE FEW DXCC MEMBERS WHO HAVE BEEN GIVEN FIJI CREDIT BASED ON A 3D2XR OR OTHER ROTUMA QSO. THEY MAY RESUBMIT THIS QSL CARD FOR THE PROPER ROTUMA CREDIT, ALONG WITH A FIJI CARD FOR FIJI CREDIT, ON OR AFTER JUNE 1, 1989.

MARION ISLAND. ZS8MI, OPERATED BY ZS6PT, IS EXPECTED ON THE AIR ANY DAY NOW. HE WILL BE THERE UNTIL OCTOBER AND HAS PROMISED TO MAKE THIS RARE DXCC COUNTRY AVAILABLE TO THE DX FRATERNITY.

MV ISLAND. OH2BH, OH2BU AND OTHERS ARE PLANNING ANOTHER OPERATION FROM MV ISLAND STARTING AROUND MAY 23, POSSIBLY WITH A DIFFERENT CALL SIGN. MV ISLAND WAS ACCEPTED FOR NEW COUNTRY STATUS FOR DXCC ON MARCH 1 OF THIS YEAR.

OCEAN ISLAND. JIM SMITH, VK9NS, PLANS TO ACTIVATE THIS POSSIBLE NEW DXCC COUNTRY AS T33JS IN EARLY MAY. HE PLANS TO OPERATE FOR ONE TO TWO WEEKS.

ROTUMA. YAMA, 5W1GP, PLANS TO SIGN 3D2YY FOR ONE WEEK BEGINNING APRIL 29. BING, VK2BCH, IS ALSO PLANNING A POSSIBLE TRIP TO ROTUMA IN MAY, THEN TO VK8 AND XK1. BING DID A BIG JOB IN THE PACIFIC LAST YEAR.

TOKELAU. BEFORE HIS 3D2YY OPERATION, 5W1GP WILL REACTIVATE ZC3XY FOR FIVE DAYS BEGINNING APRIL 17.

REVILLA GIGEDO. AN EIGHT DAY OPERATION BY EIGHT OPERATORS, N7NG, W6RGG, JH4RHF, XE1OH, XE1L, XE1XA, OH2BH AND OH2BU, IS EXPECTED TO BE OPERATIONAL ON APRIL 11. QSL TO OH2BN.

COMORO ISLANDS. D68CY, YUON SEGUIONEA, PO BOX 85, MORONI, AND D68MG, MICHEL GEORGET, PO BOX 465, MORONI, ARE THE ONLY TWO ACTIVE HAM OPERATORS FROM THE REPUBLIC OF COMORO, INDIAN OCEAN, AT THE PRESENT TIME.

JX0A. A STATION ON A DRIFTING ICE PACK, JX0A, IS OPERATING AS PART OF A SCIENTIFIC OPERATION COORDINATED BY THE UNIVERSITY OF WASHINGTON. WITH CANADA, NORWAY, THE UK AND THE U.S. PARTICIPATING. TWO RESEARCH CAMPS ARE ESTABLISHED ON DRIFTING PACK ICE IN THE AREA OF 84 DEGREES NORTH, 10 DEGREES EAST. OPERATORS ARE ULF, LA2FAA/JW4FAA AND PRESTVIK, LA4FEA/JW4FEA. THE OPERATION WILL END IN EARLY MAY. THE DRIFTING QTH IS NOT ELIGIBLE FOR DXCC COUNTRY STATUS. QSL TO LA5NM AR

## Is This You?

Are you an active member, the kind that would be missed? Or are you just content that your name is on the list? Do you attend the meetings and mingle with the flock? Or do you meet in private and criticize and knock?

Do you take an active part to help the work along? Or are you satisfied to be the kind who just belongs? Do you work on committees, to this there is no trick; or leave the work to just a few, and talk about the clique?

Please go to meetings often, and help with hand and heart. Don't be just a member, but take an active part. Think this over members, you know what's right from wrong.

Are you an active member, or do you just belong?

*Anonymous*

## Bootlegger Exposed

A bogus Amateur Radio operation was uncovered in northern Florida last November that had some bizarre twists. Involved was a ham who had served

with distinction as net manager of the Northern Florida Phone Net and who had served as net control station on several other traffic and social nets. He was Vice President of a QCWA chapter and popular among the local hams in the De Leon Springs area.

The operation began about four years ago when the legitimate holder of WA4HUZ, Lewis Dickson, apparently lived in De Leon Springs. He either sold his home or it was rented by another person with Lewis Dickson moving to Georgia. It seems the subsequent tenant of the De Leon Springs residence found a copy of Dickson's license which had been left behind. Apparently thinking that Dickson had lost interest in ham radio, the new resident took over the license. The bogus operator, whose real name is still not known, assumed the identify of Lew on the air and used the signature I. L. Dickson. It was a good cover. The callbook listed WA4HUZ as Lew in De Leon Springs.

A complication occurred when the real license holder changed the station location on file with the FCC in 1984. The new callbooks showed WA4HUZ in Georgia. Not to be dissuaded, I. L. Dickson applied to the FCC to change the address back to De Leon Springs and to modify the name on the license from Lewis Dickson to I. L. Dickson. The FCC granted the change. Not happy with a good cover, the bogus Dickson then asked the FCC to issue an AA4 extra class call to go with the grade of license he had "inherited." The FCC changed WA4HUZ to AA4QC.

Somehow, Lewis Dickson in Georgia discovered his new callsign (which he did not apply for) and began using it. In the summer of 1988, the legitimate AA4QC was traveling in Western Florida where a member of a state net heard the familiar call with a strange voice. The new operator asked the traveler to call on the phone and a lengthy discussion followed. Lewis Dickson then reported the incident to the FCC. The investigation continued slowly and just before Thanksgiving, the Commission sent a letter to I. L. Dickson in De Leon Springs citing him for violation of the following statutes: 18 U.S.C. 1001 (prohibits false statements to a federal agency) and 18 U.S.C. 1341 (which prohibits mail fraud). It threatened to turn the matter over to the Dept. of Justice for criminal prosecution.

Evidence is that I. L. Dickson pulled up stakes just before the notice arrived and left De Leon Springs fast. He was last heard operating mobile en route to Daytona. Members of the Florida nets were stunned when messages went to net control stations and new

officers to remove AA4QC from the rolls. Most thought very highly of him and praised his operating techniques. Along with the apparently bona-fide call-book listing, it was difficult to realize that "Lew" was a phony.

*From the North Florida ARS, via WA6AUD*

*"The Time Has Come,"  
the Walrus Said,  
"to Talk of Many Things ..."*



## Letters to the Editor

Facts, what facts? These are opinions expressed here. Any clod can have the facts, it is an art to have an opinion.

*Herb Caen, with some liberties taken.*

## Murphy Goes to MV Island

An article "On the Air - 4J1FS" about the Dxpediton, written by UW3AC, appeared in RADIO magazine for

April 1989

December 1988. A condensed version appears below. Comments in brackets [] are my own. As we shall soon see, Murphy accompanied the Finnish team on its way to M-V.

As long as Amateur radio has existed, shortwavers have wanted to contact some new country. It's no accident that the DXCC certificate (in the USA) and the R-150-S diploma (in the USSR) are among the most popular with certificate hunters.

Over a quarter century ago, the USSR and Finland signed an agreement on the Saymen [Saimaa?] Canal, which passes through the territory of both countries. The Soviet part of the canal was leased to Finland for fifty years, together with the small (about 1.5 km long) island of Malyy Vysotskiy, in the Gulf of Finland not far from Vyborg; the island is used by the Finnish canal administration for sea trans-shipments.

The status of Malyy Vysotskiy island is such that it can be regarded as a separate "territory" for DXCC and R-150-S purposes and the question arose naturally of Amateur Radio operation. Initial attempts to organize an expedition were made back in the early 1970s by Enn Lokhk, UR2AR, and Martti Laine, OH2BH. Later attempts by Soviet and Finnish shortwavers, alas, proved unsuccessful.

In May 1988 a letter came to the editors of Radio from their Finnish colleagues, containing suggestions for a number of events in connection with the 40th anniversary of the Agreement on Friendship, Cooperation, and Mutual Assistance between Finland and the USSR. Among the events proposed by the editors of "Radioamatori" was a radio expedition to Malyy Vysotskiy island. Not much time at all was left before the date of the expedition, and it seemed (based on previous experience) unlikely that all matters could be resolved. But we decided to try anyway. Things worked out only because of the positive attitude of the State Telecommunication Inspectorate, the Soviet canal administration, and other organizations.

Perti Turunen, OH2RF; John Ahlbom, OH5NZ; and Martti Laine, OH2BH; participated in the Finnish side. Perti is the editor of the magazine "Radioamatori" and runs the DX column. He's a "contester" who has participated in several DX expeditions. John is an active shortwaver and represents the League of Finnish Radioamateurs (SRAL) in the Shortwave Committee of Region 1 of the International Amateur Radio Union. Martti hardly needs an introduction; anyone who's been on the air knows him from his various DX expeditions to the most exotic spots on

earth.

The Soviet participants in the expedition were Enn Lokhk, UR2AR; Gennadiy Shul'gin, UZ3AU; and the writer [Boris Grigor'yevich Stephanove, UW3AX, Deputy Editor-in-Chief of the magazine Radio and editor of the numbered "On the Amateur Bands" column in the newspaper SOVETSKIY PATRIOT]. We gathered in Vyborg the morning of 7 July. With local assistance, we got a pass to the island and by about 1300 MSK were on the island. The [Soviet] border guards who greeted us reported that the launch "Sirikka" carrying our Finnish colleagues had left for the island and would arrive within half an hour.

Well okay, now we could sun ourselves a bit (the weather throughout was great) and relax. The tribulations we lived through getting ready for the expedition were, frankly, more than enough. But the blissful state induced by our break didn't last long. One hour, then two, went by and no Finnish launch. The border guards were perplexed and we couldn't sit still either. Finally it came into sight, moving slowly and leaning noticeably to one side. About a kilometer off shore it stopped, and from anxious signs from those on board, we understood that the situation was serious. The border guards towed the "Sirikka" to shore with their own launch.

Later, Martti -- who's traveled over almost half the world and has been in places where in case of some catastrophe no help would be available -- admitted to me that only after several hours on the air did he realize that they had been on the verge of a tragedy. Perhaps there would not have been any loss of life, but the launch could have sunk. A leak had developed and the water couldn't be bailed out fast enough.

But these emotions were vented only on the following day. There only remained a short time until the beginning of operations, and after unloading the launch we started installing the antennas, under the command of UZ3AU. Too bad here wasn't someone to photograph the installation of the antennas -- a photo of Gennadiy holding a 4-element KT-34 beam with one hand while climbing up the mast would doubtless have embellished this report of the expedition.

After the antennas were installed (aside from the beam, 40 to 80-meter dipoles were hung from birch trees) we looked nervously at our watches. The operating position was equipped with a TS-940 transceiver with a linear amplifier. We switched on our

three-kilowatt "Honda" generator. Everything seemed ready, with a couple of minutes remaining before the beginning of operation (000 MSK 8 July). At that moment it came to us that everyone was ravenously hungry - we had only had breakfast, some 15 hours earlier. Naturally, we put off "dinner-supper" for about an hour more.

I [UW3AX] made the first QSO on c.w. with SM3EVR. Then each of the other participants made symbolic QSOs. We then decided that the initial pile-up would be handled by the most experienced operator among us -- Martti. Then we finally fortified ourselves with some food.

The four days of uninterrupted operation flew by without our noticing them. Here are the results in a nutshell: In 96 hours 14,835 contacts were made with over 100 countries of the world, including 5830 with the USA, 5820 with Europe, 2172 with Japan, and 1013 with other countries and continents. Operation was basically on 14 MHz.

It's impossible to tell about the four-day operation in a magazine article. The average rate -- about 150 contacts per hour (on SSB this went as high as 200 during specific periods) -- speaks for itself. The operating style accepted for such expeditions -- listening for signals from calling stations in a wide bandwidth (up 20 to 30 kHz) each side of the transmitting frequency (in order to reduce QRM from calling stations) -- is very democratic. A QRP operator has a realistic chance to contact the expedition even at the beginning of the operation, provided he's fortunate enough to choose a frequency free of QRM.

We should state straight away that many of our shortwavers were unprepared (including from a purely technical point of view) for such an operating style. The majority of stations had a maximum frequency spread between received and transmit of only a few kiloHertz. This is why from time to time we switched over to a minimum offset of 2 to 3 kHz, giving rise to a non-optional mode of operation. During the second half of the last day (11 July) we operated on 3.5 and 7 MHz especially to provide the possibility of a contact to shortwavers (basically in the USSR and Finland) located in the "dead" zone for 14 and 21 MHz bands.

Here also the situation was not very pleasing -- it turned out that many of our radio Amateurs (mostly licensees of 3rd and 2nd category stations) don't know how to operate split. This is why it was necessary from time to time to resort to the inefficient alternative of receiving on our working frequency. The

level at which our shortwavers are trained for serious DX operation should be a subject for separate discussion. And not only deliberations but publications introducing techniques for conducting DX contacts, contacts with expeditions, etc.

The four days were holidays for the Soviet and Finnish participants, and apparently for shortwavers in many countries, judging by the letters and by the notes on QSL cards we received.

On 30 September the Federation of Radio Sport of the USSR decided to include the island of Malyy Vysotskiy as a separate territory in the R-150-S diploma [worked 150 countries certificate] listing. [Note that since the article was written, the ARRL accorded "M-V" DXCC status.] *W4KM translating UWSAX in Auto-Call, via W6CF*

## Power

The following article has been taken from "Power for Profit", Forbes Magazine, November 28, 1988, page 74.

"Salt Lake City's Bonneville Pacific Corporation contracted to build an 8 Megawatt hydroelectric power plant at Twin Falls, Idaho. The plant's first commercial power was to be delivered to Idaho Power vby midnight on New Year's Eve.

"If they failed the backers would lose their investment tax credit on the \$19,000,000 project. Also down the drain would go \$750,000 in capital losses!

"The plant began trial operations two or three days before the deadline. But as New Year's Even approached they found that they couldn't tie into the power grid. Every time they tried a voltage regulator would pop a resistor and everything stopped. They had just about given up when one of the electricians, who was a ham operator, came up with a heavy duty ceramic resistor from his junk box. He installed the junk-box replacement resistor in the high-tech controller and the generators locked on the line!

"8:30 PM New Year's Eve! Cheering! Screaming! Yelling! It worked! It worked!"

Soooo ... don't throw that resistor away -- it might come in handy someday. And someone may even thank you for using it...

*73 de K6FD*

## Go Placidly

"Go placidly amid the noise and haste, and silence. So far as possible without surrender be on good terms with all big-gun locals.

"Transmit quietly but clearly; and listen carefully to all others, even the dull and ignorant, for they too may be new multipliers. Try to avoid loud and aggressive QRM; it is a vexation to the spirit. If you compare your reports to those of others you may become vain and bitter. For always there will be greater and lesser signals than your own. Keep interested in your country's total. However humble, it is a real possession in the changing fortunes of DX. Exercise caution in QSLing for the world is full of trickery. But let this not blind you to what virtuous QSLers there are. Many persons strive for high ideals and everywhere life is full of heroism.

"Be yourself. Neither become cynical about DX, for in the face of all aridity and disenchantment it is perennial as the grass. Take kindly the counsel of OTs and gracefully surrender the foibles of young squirts. Nurture strength of ham spirit to shield you in sudden QSB. Do not distress yourself with vague imaginings. Many operation errors are born of fatigue.

"You are a child of the ionosphere no less than those with higher power and bigger beams. You have a right to be here. And whether or not it is clear to you, no doubt the solar cycle is unfolding as it should ... with all its sham, drudgery and broken dreams, it is still a beautiful DX world. Be careful. Strive to be happy. Switch to Safety."

Which you may recognize as an ineptly perpetrated paraphrasing of Ehrmann's famed "Dessiderata" to go with your DX Test weekends. We apologize humbly to Max. His original wording already deals adequately with our radio world and all others.

*With permission from QST March 1973, How's DX?, Rod Newkirk, W9BRD, via K6TS*

## Signals jam East Bay garage door openers

AP, Livermore -- Hundreds of homeowners from Concord to Livermore are being confounded by uncooperative automatic garage door openers, thanks to a government agency transmitting radio signals from atop Mount Diablo, officials said.

Tom Hora, a spokesman with the Federal Communications Commission in Livermore, declined to identify

the agency Tuesday. But he warned East Bay residents who can't tune the openers to another frequency can expect the problem to persist through May 2.

Garage door companies have been swamped with complaints since March 10th, when homeowners discovered nothing was happening when they pressed the magic buttons on the handy devices that normally save them the trouble of manually opening and closing the doors.

Brian Carr, salesman at Contra Costa Door Co. in Concord said he's received up to 400 calls. "All we know is that there's interference in the air from some source -- we do not know why," he said.

The difficulty has been reported in Concord, Orinda, Walnut Creek, Danville, San Ramon, and Livermore.

Hora said the public wasn't forewarned because garage door openers are considered "unprotected devices" although they operate on radio frequencies used by the government.

"We're not obligated to do anything," he said. "Normally, though if anyone were to contact us, we would let them know what the situation is."

*Santa Rosa Press Democrat, via K6BWX*

## Dear Editor:

My next door neighbor installed a burglar alarm system about 2 years ago. As soon as I transmitted the alarm would go off. This occurred on several HF bands with power as low as 100 watts. The alarm company came out and with my assistance installed various filters and ferrite devices that stopped the falsing. I was impressed with the system and subsequently installed a burglar alarm from the same manufacturer. The alarm company also provided similar filtering on my system and there has never been a false alarm from RF at either my QTH (or the one adjacent to me).

A few months after these 2 systems went in the neighbor on the other side of my QTH put in an alarm system. It would report an alarm condition when I transmitted on HF with power less than 100 watts. In addition to ringing a loud bell this system also called the fire and police departments to him home! I told him of my experience with filtering and we then began a long but unsuccessful process of trying to eliminate the falsing. His alarm company is a major supplier of burglar alarm systems for industrial and residential customers. They were unwilling

to provide free technical assistance and demanded payment for all service calls associated with modifying the system to prevent false alarms due to RF. In addition, the city was levying fines for the false alarms that amounted to several hundred dollars.

My neighbor demanded that I stop transmitting or face legal action. I explained that I was properly licensed and did not interfere with consumer electronic equipment at home or, to my knowledge with other neighbors. I told him that the TH-7 and 2 element 40 meter beam on my tower were an open invitation to anyone experiencing RFI to come see me. Whenever this happens I install filtering and eliminate the RFI.

His wife began canvassing the neighborhood asking for signatures on a petition to shut me down. She also had post cards made up for the neighbors to mail to the FCC whenever any electronic equipment at their homes picked up radio interference. These cards had my call, name, and address on them. While all this was going on I tried to get the neighbor to demand that the alarm company take responsibility for eliminating the RF pick-up.

They reported me to the Department of Public Works who sent the city engineer out to my QTH to inspect the installation. Everything was in order and the city suggested that the matter be worked out between the two of us or taken to the FCC. A few weeks later I got a notice of complaint from the FCC and asked to reply to a lengthy questionnaire about RFI. I did so and several weeks later received a phone call from a Public Service Specialist at the SF office of the FCC who interviewed me. When she was finished she told me she admired my patience and the professional manner in which I had dealt with the situation. She said that a letter would be prepared by her office and sent to the neighbor explaining that the problem was his responsibility to fix and not mine. A copy of this letter follows. I am more than willing to speak with any amateurs who have RFI problems with alarm systems. I have erase my neighbor's name and any reference to my name or callsign in the FCC letter.

It has now been 6 months since the FCC contacted my neighbor. He has not complained again nor has he even spoken to me despite numerous attempts on my part to re-establish good relations.

*73, Tom McShane, NW6P*

COPY FOR YOUR  
INFORMATION



FEDERAL COMMUNICATIONS COMMISSION  
FIELD OPERATIONS BUREAU  
424 Customhouse, 555 Battery St.  
San Francisco, California 94111

September 21, 1988

Mr. & Mrs.

Dear Mr. & Mrs.

This is in reply to your recent letter concerning interference to your burglar alarm and telephone system. is a licensed amateur radio operator and therefore, permitted to operate relatively high power transmitting equipment associated with his station. We corresponded with Mr. , in response to your complaint, to insure that his station is in compliance with our technical rules. On June 15, 1988 we received a satisfactory reply to our letter. Mr. stated that his transmissions do not cause interference to his TV, telephones, burglar alarm, etc. He has installed additional shielding to his home electronic equipment to prevent interference from occurring.

Please be advised that Security Alarm Devices are regulated under Part 15 of the FCC Rules and are not offered any protection by the FCC should an authorized high power (government or non-government) radio station cause undesired operation or activation. The FCC advises manufacturers to consider the close proximity of amateur stations in residential areas, when designing their equipment, in order to minimize its susceptibility to false activations.

In your 3/4/87 letter to ADT you mentioned that your neighbor's alarm system was modified which prevented any additional false alarms. Mr. had his alarm installed and shielded by the same firm used by your neighbor. He has not experienced any false alarms. Since your local ADT service office has not eliminated your problem, I'd suggest recontacting their headquarters staff for assistance or consider changing to a different service company.

Telephone equipment that responds to nearby radio transmissions is improperly functioning as a radio receiver. Proper shielding of the telephone can eliminate the interference. Therefore, you should contact the manufacturer for assistance if you own the telephone. Assistance for leased telephones should be brought to the attention of the equipment lessor. Enclosed is a copy of our bulletin entitled, Telephone Interference. It contains information that may be helpful to you and your telephone company service representative.

Mr. has expressed a desire to help resolve your interference problem by continuing to cooperate with you in future testing. Please contact Mr. ( ) and arrange a mutually agreeable time to conduct additional tests during your burglar alarm company's on-site service visit. The purpose of these tests is to determine if Mr. 's station is the source of your interference and to verify that the installation of appropriate filters have eliminated the problem or if other remedial measures will need to be taken.

We hope this information is helpful to you. If you have any further questions, please call Amy Freundlich of my staff at (415) 556-7701.

Sincerely,

S. Marti-Volkoff  
Engineer in Charge  
San Francisco Office

**THE NORTHERN CALIFORNIA DX CLUB,  
INC. PO BOX 608, MENLO PARK, CA 94028**

The *DXER* is the bulletin of the NCDXC and is published monthly for the benefit of its members. Permission to use any portion of this publication is hereby granted, provided credit is given to the *DXER*.

**NCDXC OFFICERS**

President: Jerry Griffin, W8MEP  
Vice President: Larry Souza, KG6GF  
Secretary: Tom Jones, K6TS  
Treasurer: Stan Kuhl, K6MA  
Director: Ted Algren, KA6W  
Director: Hal Godfrey, N6AN  
Director: Chuck Patterson, K6RK

**DXER STAFF**

Editor: Dave Engle, KE6ZE  
Production: Ron Panton, W6VG  
DX Ladder: Larry Bloom, KD6XY  
NCDXC Data Base: Martin Oppenheimer, KB6BW

Send *DXER* contributions to:

Dave Engle  
1063 Summerwood Court  
San Jose, CA 95132  
or, if you have internet access, to:  
engle@wdl1.fac.ford.com

Send DX ladder reports to:

Larry Bloom  
2520 Heather Lane  
San Bruno, CA 94066

**NCDXC REPEATER W6TI/R**

Input 147.36 Mhz; Output 147.96 Mhz; Simplex 147.45 Mhz  
Trustee: Bob Vallio, W6RGG  
Repeater Committee Chairman: Smitty Smithwick, W6JZU

**NCDXC THURSDAY NIGHT NET**

On W6TI/R Thursday at 8:00 PM local time.

Operations Manager: Ralph Hunt, AG6Q  
DX News: Bob Artigo, KN6J  
Propagation: Al Lotze, W6RQ  
Contest News: Bob Dorse, K4UVT  
Westlink: Dave Bottom, KD6AZ  
Swap Shop: Ben Deovlet, W6FDU  
933 Robin Lane  
Campbell, CA, 95008  
408/374-0372

QSL Information: Mac McHenry, W6BSY

**NCDXC DX BULLETIN BROADCASTS**

Trustee: Bob Vallio, W6RGG  
W6TI, the NCDXC memorial station broadcasts DX bulletins each Sunday at 1800 PST (Monday 0200 UTC) on 7.015 Mhz and 14.002 MHz.

**FLASH**



Catperson recently seen in U.K.

*Reported seen by K6SMH, aka GOCLY.*

-										-													
WAZ		5 BAND WAZ					WPX			-		WAZ		5 BAND WAZ					WPX				
CALL	MIX	PH.	CW.	-10m	15m	20m	40m	80m	-MIX-	-PH.	-CW.	CALL	MIX	PH.	CW.	-10m	15m	20m	40m	80m	-MIX-	-PH.	-CW.
AA6AD	40											K6WD	40										
WA6AHF		40										WB6WKM	40	40									
N6AN	40	40	40									KE6WL	39	38									
K6ANP			40									K6WR	40	40									
KA6BIM	39											KH6WT			40								
W6BJH	40											K6XM	40										
WA6BSS		40										K6XT	40	40									
KB6BW	40											KD6XY	40	40	25	28	33	38	5	2			
W6CF	40	40							893			KR7Y	40								1,526		
WB6CUA	40	40		40	40	40	32	24				K6YK	40	40	40								
WW6D	33											W6YVK	40									659	
W6DPD	40	40										AA6Z	40										
K6DT	40	40							1,416			W6ZKM		40									
NQ6E	39											K6ZM	40	40									
WD6EKR/M		40										W6ZM	40	40									
W6ERS	40											K8ZTT	40										
W6ETR			40									K6ZX	40										
WW6F		40																					
W6FAH		40																					
K6FO			40																				
WB6GFJ	40	40							837			*W6GO	5 BAND WAZ #129										
N6GG	40											*N6JM	WPX HONOR ROLL #1565										
W6GO	40	40		40	40	40	40	40				*W6WKM	5 BAND WAC										
K5GOE	40	40							1,037	947													
WA6HAT	40																						
K6HHD	40																						
K6HNZ	40																						
N6HR	40								863														
WC6I	39			32	37	40	37	26															
W1ICU	40																						
W6ISQ	40	40							869														
W6JD	40																						
N6JM	40			34	39	39	28	20	1,664														
N6JV	40								2,162	2,135													
W6JZU	40	40																					
W6KG	40	40							911														
W6KNH	40	40																					
W6KOE	40	40																					
W6KQK	40	40																					
K6KQN	40	40																					
NB6L	40																						
K6LQA	40																						
W6LQC		40								939													
WX6H	40																						
K6MA	40	40																					
W6MUR	40																						
W6NKR	40																						
W6NLG	40	40							450	450													
K6NM	40																						
W6NPY	40																						
N6OC	40																						
WA6OEY	40																						
N6OJ	40																						
K6OJO	40	40																					
W6OHR	40	40																					
K6PBT	40																						
K6PKO	40	40																					
W6QL	40	40																					
N6QR	40	40																					
W6RGG	40	40																					
W6RJ	40	40																					
K6RK	40	40																					
N6RR	40																						
DJ6RX	40			40	40	40	40	40															
AF6S	39																						
K6SIK	40	40	40	39	40	40	40	38															
N6ST	40	40																					
W6TC	40		40	40	40	40	40	37															
K6TMB	40		38	38	38	40	26	28															
WA6TOO	20																						
AE6U	40																						
K6UD	40																						
WB6UOM	40																						
AJ6V	40																						
W6VQD		40																					

HONOR ROLL		DXCC		5 BAND DXCC					HONOR ROLL		DXCC		5 BAND DXCC				
CALL	-MIX PH. CW.	-MIX PH. CW.	-MIX PH. CW.	-10m	15m	20m	40m	80m	CALL	-MIX PH. CW.	-MIX PH. CW.	-MIX PH. CW.	-10m	15m	20m	40m	80m
KF6A		274							W6NKR		289						
AA6AD		271	181 252	109	176	258	54		W6NLG		316 306 100	100 100 100	26	6			
W6AED/7			325		100	100			K6NM		300 200 191	100 135 258	152	34			
W6AEO			241						W6NPFY		316 200 265	200 200 200	178	139			
WA6AHF	312		335	100	100	100	100	100	WA6O		217		88	50	123	2	16
KG6AM		263	253 136	95	163	238	36	23	N6OC		303 300						
N6AN	313	333	276 278	217	276	295	167	115	WA6OEY		227		71	60	170	20	8
K6ANP		316	199 211	133	144	199	110	105	N6OJ		316 275 105						
N6AUS		258							K6OJO	312 311	328 327		187	250	309	17	12
KA6BIM		196	190 59	108	131	141	33	8	W6OMR	313	332 318						
W6BJH	311	327	192 282	120	117	187	117	100	W6OSP		300						
WA6BSS		280	280 2	125	155	229	49	14	WB6OTB		238						
W6BSY	315 313	358	351						WB6OTC		284						
KB6BW			251 2	89	89	151	26	2	K6OZL		332		100	100	100	100	100
K6BWX		225	1 224						K6PBT		216 191 115		111	133	145	61	15
W6CF	315	342	294 185	204	239	306	178	138	K6PKO		300		270	175	185	92	67
K6CN		260	253 158						K6PU	316 311	344 325 250		200	200	300	200	100
W6CTL		316	1 245	142	129	313	88	11	AG6Q		303 289 168		100	100	100	100	100
WB6CUA		320	294 280	100	100	100	100	95	KB6Q		294						
W6GD		172	89 147	33	70	136	67	26	W6QDE		281 138 243						
K6DC	315	359							W6QL	315	337 263 69		114	161	201	111	103
W6DD			126						N6QR	310	313		100	100	100	100	100
W6DPD		300	300						N6RC		213						
K6DR		248							W6RGG	315 313	340 336						
K6DT	312 307	340	320 293	229	251	328	153	121	W6RJ	316	345		100	100	100	100	100
W6DU		329	276 300	207	223	299	149	101	K6RK	313	325 310 285		100	100	100	100	100
NQ6E		227	177	107	120	183	128	115	K6RQ	317	354		91	182	285	126	71
WD6EKR			294	154	218	275	72	71	N6RR		289		116	210	176	129	88
WD6EKR/M			233	79	187	145	2	2	K6RUW		270 242 120		100	100	100		
W6ERS	315	345							DJ6RX	315	336		215	271	303	227	185
W6ETR			237						AF6S		303		247	261	288	188	123
WB6EXW		303		100	100	100	50	11	K6SLK		279 274 130		150	170	255	125	117
WW6F		264	260 124	135	133	170	36	33	N6ST	315	320 297 235		171	207	284	126	50
W6FAH			280 128	156	183	263	134	136	W6SYL		220						
K6FD			271						W6TC	316	314		100	100	100	100	100
W6FGD		317	249 267						W6TER		269						
K6FO		277	185 239	134	164	235	125	102	K6TMB		291 283 195		175	195	275	120	112
KB6G		253	229						WA6TOO		251		58	84	167	6	6
KD6GC		175							W6TPH		272 238 187		141	181	172	110	100
KG6GF		281		70	120	210	256	124	AE6U		304		200	200	200	200	140
WB6GFJ		101	300 70	161	192	246	105	50	K6UD	308	318 306 207		240	244	244	176	147
N6GG		301							WB6UOM		300						
W6GO	312 311	326	325 307	257	286	313	242	206	W6UR		264 159 158						
K5GOE		303	290	182	100	100	100	87	K4UVT		287 208 97		31	70	275	53	7
AE6H		208	100 100						AJ6V		306 215 253		134	160	245	133	62
WA6HAT		311	243						W6VQD		320 319 1		134	157	282	104	106
K6HHD		312	308 23	204	174	221	42	40	KD6VS		304						
K6HNZ			290	209	242	254	125	107	K6WD	312	325		100	100	100	100	65
N6HR	308	329	315	100	100	100	100	100	WB6WKM		300 100 100		100	100	100	100	63
W6HXW	323		323						KE6WL		219 211 153		120	166	185	83	32
WC6I		275		139	155	210	149	57	K6WR	319 319	349 349		100	100	100	100	100
W1ICU	315		333						KH6WT		204						
K4II	312	339	303 336	197	243	322	248	162	KK6X		281 227 255						
W6ISQ	315 312	348	331 207	157	189	219	122	110	NG6X		250						
W6JD		315	209 287						W7XA		325		277	298	309	174	137
N6JM		286	272 230	178	214	250	117	85	K6XM		267 209 222		163	179	246	144	68
W6JRY	306	321							K6XN		307 300 263		131	142	237	108	137
N6JV	310	321	167 300	100	100	100	100	100	W6XP	313 313	329 329						
W6JZU	312	328		75	115	255	22	12	K6XT	312	327		100	100	100	100	65
W6KG	314	352	290 108	161	193	210	169	105	KD6XY		298 289 63		119	133	222	7	3
W6KH	316	354							KR7Y		301 271 267		149	184	249	142	126
W6KNH	319 319	339	339						K6YK		316 280 293		241	268	296	203	102
W6KOE	313		332						K6YK/M		167						
W6KQK		310	295 287	243	278	299	152	118	W6YVK		251		160	198	173	56	42
K6KQN		265	260						AA6Z		283						
NB6L		311	212 162	100	93	186	40	19	W6ZKM		333		100	100	100	100	100
WA8LLY		215	182 150	127	135	159	51	16	K6ZM	315	345 311 261		100	100	100	100	73
K6LQA	312	330							W6ZM	315 315	350 345		130	142	317	52	111
W6LQC	313 312	330	330						K8ZTT		286 276 243		175	168	237	105	70
WX6M		308	308 21	145	135	167	65	44	WB6ZUC		317		178	244	265	152	105
K6MA	316	346	317 264	110	100	100	102	108	K6ZX		309		287				
W8MEP		278															
W6MUR	313	357															
W6MZ		324															
W6NA			271	140	190	251	192	109									

\*W6NA 5 BAND DXCC #2278



**GEOCHRON**  
GLOBAL  
TIME  
INDICATOR **SALE**

- Detailed illuminated map shows time, time zone, sun position and day of the week at a glance for any place in the world.
- Continuously moving - areas of day and night change as you watch.
- Mounts easily on a wall. Size: 34 1/2" x 22 1/2".

**\$1295 \$1159.95 DELIVERED IN U.S.**

**KENWOOD  
TL-922A**



**2 KW PEP LINEAR AMPLIFIER**  
Pair of EMAC 3-500Z Tubes

**KENWOOD  
TS-440S**



**HF TRANSCEIVER**  
• 160 m. to 10 m Amateur Band  
• 100-KHz to 30 MHz Receiver  
• Available with optional built-in Antenna Tuner.

**YAESU  
FT-747GX**

Computer Aided  
HF All Mode  
Transceiver



**100 WATTS, DUAL VFO'S**  
Receives 100 KHz to 30 MHz  
**BUILT-IN CW FILTER**

**YAESU  
FT-212RH/712RH**  
Computer Aided  
FM Transceiver



**KENWOOD  
TS-940S**



COMPETITION CLASS  
HF TRANSCEIVER  
**CALL FOR LOW, LOW PRICE**

**ICOM IC-781**

**BULLETIN** ege has joined the  
**HAM RADIO OUTLET  
NATIONWIDE TEAM**

**NOW LOCATED IN**  
SALEM, NH  
WOODBRIDGE, VA

**THIS GIVES YOU EVEN  
BETTER RESPONSE WITH  
LOW-LOW OUTLET PRICES  
& RAPID DELIVERIES  
COAST TO COAST.**

**AEA** Advanced  
Electronic  
Applications

**PK-232 Multi-mode  
Data Controller**



- NEW IBM Fax Screen Display Program Available
- Transmit/Receive on Six Modes
- CW/RTTY/ASCII/AMTOR/Packet/FAX
- IBM and Commodore terminal programs available
- Radio Ports for HF and VHF

**In Stock for Quick Delivery**

**Free Shipment**

**GUARANTEED QUALITY  
AT LOW OUTLET PRICES**



**US  
TOWER  
CORPORATION**

**MA-40**  
40' TUBULAR TOWER  
~~\$899~~ **SALE! \$629**

**MA-550**  
55' TUBULAR TOWER  
~~\$1366~~ **SALE! \$999**  
• Handles 10 sq. ft. at 50 mph  
• Pleases neighbors with tubular streamlined look

**TX-455**  
55' FREESTANDING  
CRANK-UP  
• Handles 18 sq. ft. at 50 mph  
• No guying required  
• Extra-strength Construction  
• Can add raising and motor drive accessories

TOWERS RATED TO EIA SPECIFICATIONS  
OTHER MODELS AT GREAT PRICES  
**IN STOCK FOR QUICK DELIVERY**



**BURLINGAME, CA 94010**  
999 Howard Ave.  
(415) 342-5757  
George, Mgr. WB6DSV

**Bob Ferrero W6RJ**  
President  
**Jim Rafferty N6RJ**  
VP So. Calif Div.  
Anaheim Mgr.

**OAKLAND, CA 94606**  
2210 Livingston St.  
(415) 534-5757  
Al. Mgr. WA6SYK



**HAM  
RADIO  
OUTLET**  
LARGEST HAM OUTLET IN THE WORLD



**THE DXer**  
P. O. Box 608  
Menlo Park, CA 94026  
U.S.A.

Lic. Exp 1/98  
Philip E Frazier, K6ZM  
44 Toyon Terrace  
Danville, CA  
94526

**FIRST CLASS**

**FIRST CLASS**

**FIRST CLASS**